

## Document Log Item

Addressing	
<b>From</b>	<b>To</b>
Eugenia Chow/R9/USEPA/US	Debbie Schechter/R9/USEPA/US@EPA Michael Montgomery/R9/USEPA/US@EPA Debbie Schechter/R9/USEPA/US, Michael Montgomery/R9/ USEPA/US
<b>CC</b>	<b>BCC</b>
<b>Description</b> <span style="float: right;">Form Used: Memo</span>	
<b>Subject</b>	<b>Date/Time</b>
Fw: Hickam Communities - site-specific risk standards and EALs	03/28/2012 12:56 PM
<b># of Attachments</b>	<b>Total Bytes</b>
0	11,872
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Body

## Document Body

here is some info on the cleanup standards that were used.

----- Forwarded by Eugenia Chow/R9/USEPA/US on 03/28/2012 12:55 PM -----

From: "Sadoyama, Eric J" <eric.sadoyama@doh.hawaii.gov>  
To: Eugenia Chow/R9/USEPA/US@EPA  
Cc: "Grange, Fenix" <fenix.grange@doh.hawaii.gov>  
Date: 03/22/2012 03:29 PM  
Subject: Hickam Communities - site-specific risk standards and EALs

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Eugenia,

Here are the site-specific EALs for the Hickam Communities Remedial Action site, as well as HDOH's default Tier 1 EALs:

Hickam Communities – Site-Specific Risk Standards and EALs		
Site-Specific Risk Standard	Action Taken Using This Standard	Chlordane (mg/kg)
2006 HHRA	Removal Actions #1A & #1B	23.4
2010 APRA 3	Removal Action #2A	35
2010 APRA 2	Removal Action #2B	35
2010 APRA 1	Removal Action #2C	35
2011 HHRE	Removal Action #3	23.4
2012 EHE	Remedial Action	38
NOTE: Due to the presence of multiple COPCs, decisions on removal actions and remedial actions at Hickam Communities have been based on cumulative Hazard Index (HI). EALs shown above represent the levels that would be used if Hickam Communities were a single-contaminant site.		
HDOH Tier 1 EALs (statewide defaults)		
HEER Document		Chlordane (mg/kg)
Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater: Interim Final. May 2005.		1.6
Pesticides in Former Agricultural Lands and Related Areas: Updates on Investigation and Assessment. 5/11/2007, 2007-251-RB.		16
Screening for Environmental Hazards at Site with Contaminated Soil and Groundwater, Fall 2011 Updates. Dec 2011, 2011-716-RB.		16

HC's EALs are based on: (1) changing the exposure period from 30 yr to 6 yr; (2) changing the target cancer risk from  $10^{-6}$  to  $10^{-5}$  or  $10^{-4}$ ; (3) changing the child soil ingestion rate from 200 mg/day to 100 mg/day; (4) changing the dermal absorption

factor from 0.10 to 0.05; and (5) updating the reference dose and cancer slope factor values. Let me know if you need the supporting documentation.

Please don't hesitate to call or email if you have any questions.

Thanks,

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Eric Sadoyama, Remedial Project Manager  
SDAR Section | HEER Office | Hawaii Department of Health  
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**From:** Grange, Fenix

**Sent:** Thursday, March 22, 2012 9:06 AM

**To:** 'Eugenia Chow'

**Cc:** Sadoyama, Eric J

**Subject:** RE: hickham cleanup numbers

Yes.

Eric, would you follow up with the table that shows the changes in action levels over time? I believe the table footnotes describe the nature of each change. We also have a risk reassessment document from Dr. Herman Gibb at TetraTech, that recalculates the toxicity of aldrin and dieldrin using current IRIS methodology.

Fenix

**From:** Eugenia Chow [<mailto:Chow.Eugenia@epamail.epa.gov>]

**Sent:** Wednesday, March 21, 2012 11:06 AM

**To:** Grange, Fenix

**Subject:** hickham cleanup numbers

Fenix,

Thanks for the discussion on Hickham yesterday. I really appreciate the info. I was just looking over my notes and I wanted to confirm the cleanup numbers that DOH used for the contaminants of concern (Dieldrin, Aldrin and Chlordane?) before my discussions w/ Mike and Debbie.

Could you please clarify the values used initially and the ones that were used after the site specific risk assessments were completed?

thanks,

Eugenia